

10 BASED PCT/PTO - U APR 1999

Patent
Attorney's Docket No. 024444-580

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Mats WALDENSTRÖM et al.)
Application No.: 09/214/923) Group Art Unit: Unassigned
Filed: January 15, 1999) Examiner: Unassigned
For: CEMENTED CARBIDE INSERT)
FOR TURNING, MILLING)
AND DRILLING)

#4
9/2/99
JZ

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The following documents were cited on pages 1 and 10 of the above-identified specification:

U.S. Patent 5,529,804;

U.S. Patent 5,505,902;

GB 346,473; and

EP 523 021, which corresponds to U.S. Patent 5,674,564 (a copy of the U.S. Patent is enclosed).

Also enclosed is a copy of the International Search Report issued in connection with the corresponding PCT application. The documents cited therein are:

U.S. Patent 4,923,512;

U.S. Patent 3,660,050;
EP 240 879, which corresponds to U.S. Patents 5,068,149 and 5,288,676 (copies of the U.S. Patents are enclosed);

EP 476 632, which corresponds to U.S. Patents 5,334,561 and 5,434,112 (copies of the U.S. Patents are enclosed);

Dialog Information Services, File 351, DERWENT WPI, Dialog Accession No. 010155859, WPI Accession No. 95-057111/199508, (NGK SPARK PLUG CO LTD), "Tungstencarbide-base cemented carbide used for cutting tool - comprises hard phase having specified particle size distribution, and contg tungsten carbide and ferrous metal bonding phase", & JP,A,6335808, 19941206, 199508 B;

Dialog Information Services, File 351, DERWENT WPI, Dialog Accession No. 011397725, WPI Accession No. 97-375632/199735, (KOBÉ STEEL LTD), "Hard tough cemented carbide - comprises mainly tungsten carbide, cobalt and nickel", &JP,A,9125185, 19970513, 199735 B;

Dialog Information Services, File 351, DERWENT WPI, Dialog Accession No. 011172064, WPI Accession No. 97-149989/199714, (DIJET IND CO LTD), "Sintered hard material for water jet or wire drawing die nozzles - comprises iron, cobalt, and/or nickel, carbide and/or carbonitride of Gp-IVA transition metal, and tungsten carbide", & JP,A,9025535, 19979128, 199714 B;

Dialog Information Services, File 351, DERWENT WPI, Dialog Accession No. 008723156, WPI Accesion No. 91-227173/199131, (TOSHIBA TUNGALLOY KK), "Coated sintered hard alloy for intermittent cutting - has single or multilayers of ceramics on matrix of tungsten carbide or gp-IVA, gp-VA or gp-VIA carbide(s) or carbonitride(s)", & JP,A,3146677, 19910621, 199131 B;

Dialog Information Services, File 351, DERWENT WPI, Dialog Accession No. 008551086, WPI Accession No. 91-055137/199108, (HITACHI TOOL KK), "Super-hard alloy prodn. - comprises hard phase of titanium-carbide, titanium-nitride and tungsten carbide and binder phase of iron-Gp. metal", & JP,A,3006349, 19910111, 199108 B;

Information Disclosure Statement
Application No. 09/214,923
Attorney's Docket No. 024444-580
Page 3

Dialog Information Services, File 351, DERWENT WPI, Dialog Accession No. 004689404, WPI Accession No. 86-192746/198630 (HITACHI CHOKO KK), "Ultrafine particles sintered hard alloy - comprises tungsten carbide hard phase bonded with iron and chromium gp elements contg. carbide(s)", & JP,A,61124548, 19860612, 198630 B; and

Dialog Information Services, File 351, DERWENT WPI, Dialog Accession No. 004675229, WPI Accession No. 86-178571/198628, (HITACHI CHOKO KK et al.), "Hard alloy useful for cutting tools etc. - comprises hard phase contg. tungsten carbide, and binder metal phase contg. iron-gp. and chromium-gp. elements", & JP,A,61110745, 19860529, 198628 B.

A copy of the Swedish Office Action issued in connection with the corresponding Swedish application is enclosed. The documents cited are:

U.S. Patent 4,923,512, cited above;

U.S. Patent 3,660,050, cited above;

SE 502 754, which corresponds to U.S. Patent 5,529,804, cited above; and

WO 95/26245, which corresponds to U.S. Patent 5,505,902, cited above.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialled copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620
Date: *April 20, 1999*

By: *Ronald L. Grudziecki*
Ronald L. Grudziecki
Registration No. 24,970